

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 June 2004 (03.06.2004)

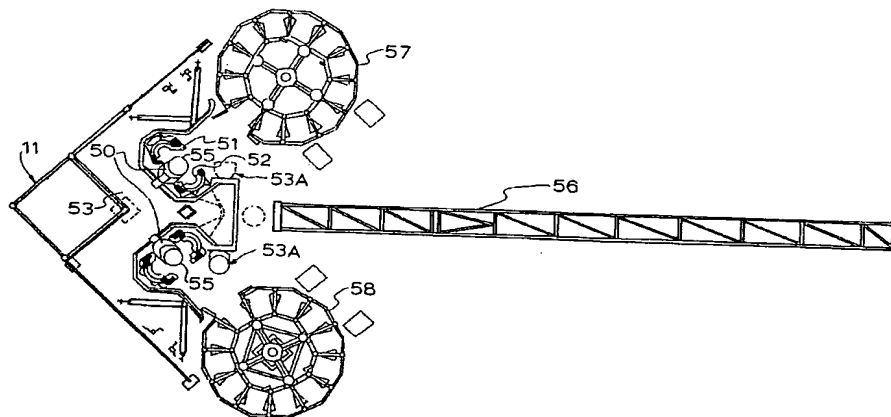
PCT

(10) International Publication Number  
**WO 2004/045819 A1**

- (51) International Patent Classification?: **B28B 23/18**, 21/56, 5/00, 15/00
- (21) International Application Number: PCT/AU2003/001522
- (22) International Filing Date: 17 November 2003 (17.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 2002952761 18 November 2002 (18.11.2002) AU
- (71) Applicant (for all designated States except US): VERTECH HUME PTY LTD [AU/AU]; 64 Lock Avenue, Warribee, VIC 3030 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): HUME, Graeme, Reginald [AU/AU]; 64 Lock Avenue, Warribee, VIC 3030 (AU).
- (74) Agent: MISCHLEWSKI, Darryl; IP Strategies, P O Box 1254, Camberwell, VIC 3124 (AU).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MOULDING OF CONCRETE ARTICLES



(57) Abstract: A plant for moulding and curing elongated concrete products such as poles piles and pipes which includes at least one vertical mould, support means above the mould to suspend the reinforcing material in the mould, pump means to fill the mould with concrete so that the elongated product forms around the reinforcing material. A vertical curing carousel adapted to vertically suspend the moulded elongated product is associated with each mould. A lifting apparatus is used to lift reinforcing material into the vertical mould, to remove the formed product from the mould, to place it on the curing carousel and to remove it from the carousel when the product is sufficiently cured for storage. The products incorporate a reinforcing mesh which is suspended in the mould from at least two attachment points so that a portion extends from the top of the mould. A flexible link is used to attach the reinforcing mesh to the attachment points to reduce the likelihood of relevant movement between the reinforcing and the moulded concrete during removal and transfer from the mould.

WO 2004/045819 A1